WHAT IS CLAIMED IS:

- 1. A Method for detecting fraud in a telecommunications system, comprising the steps of:
- (1) performing a plurality of types of fraud detection tests on network event records;
- (2) generating fraud alarms upon detection of suspected fraud by any of the fraud detection tests;
- (3) correlating the fraud alarms into fraud cases based on common aspects of the fraud alarms; and
 - (4) automatically responding to certain of the fraud cases.